

WELL NAME AND NUMBER Shinnery 14 Fed. No. 1
LOCATION 330 1650
660' FSL, 1980' FEL, Section 14, T-18S, R-32E, Lea County, New Mexico
(New Mexico give U.S.T.&R. - Texas give S, BLK, SURV. and TWP)
OPERATOR Santa Fe Energy Operating Partners, L.P.
DRILLING CONTRACTOR MORANCO Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

Degrees and Depth		Degrees and Depth		Degrees and Depth		Degrees and Depth	
1/2	227	1/4	3956	3 1/2	7799	2 3/4	9787
1/4	423	3/4	4450	3	7890	2 1/2	9960
1/2	745	1	4875	2 3/4	7984	2 1/2	10200
1	1180	1 1/4	5374	2 1/2	8139		
3/4	1487	1 3/4	5684	2	8294		
1/2	1797	1 1/2	5962	2	8537		
1	2027	2	6457	2	8757		
1 3/4	2346	1 3/4	6706	2 1/2	8900		
2	2745	1 1/4	6970	2 3/4	9136		
1 3/4	2869	1/2	7140	3 1/2	9384		
3/4	3181	3/4	7425	3	9477		
3/4	3457	3 1/4	7624	3 1/4	9633		

Drilling Contractor MORANCO Drilling, Inc.

By Wiley Gilmore, Marketing Manager

Subscribed and sworn to before me this 21st day of December 19 88

My Commission expires: September 13, 1992
Notary Public Lea County, New Mexico